IN RE APPLICATION OF: U.S. Patent No. 7,046,640

USPTO CONFIRMATION CODE: 7967

APPLICATION NO.: 09/896,564

FILED: June 29, 2001

EXAMINER: Min Jung

GROUP ART UNIT: 2616

FOR: SOFTWARE ANALYSIS TOOL FOR CDMA SYSTEM

37 CFR 1.322 & 37 CFR 1.323 REQUEST FOR CERTIFICATE OF CORRECTION
FOR USPTO AND/OR APPLICANT MISTAKE

HONORABLE COMMISSIONER OF PATENTS & TRADEMARKS

SIR:

The following is a request for a certificate of correction in Serial Number 09/896,564, now Patent Number 7,046,640.

A certificate of correction under 35 USC 254 is respectfully requested in the above-identified patent.

The errors were the fault of both the applicant and USPTO and, accordingly, please charge **$100.00** to our Deposit Account No. 50-1379. In the event that a further fee is required, please charge the amount to the same Deposit Account.

The exact locations where the errors appear in the patent and patent application are as follows:

On the Face Page, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 5, delete "Technolgoy" and insert - - Technology - -, therefor.
(LIST OF REFERENCES CITED BY APPLICANT AND CONSIDERED BY EXAMINER DATED AUGUST 18, 2005, SHEET 1 of 1, UNDER "OTHER DOCUMENTS", ENTRY 1, LINE 4)

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 7, delete "50-20011204-21" and insert - - C50-20011204-21 - -, therefor.
(LIST OF REFERENCES CITED BY APPLICANT AND CONSIDERED BY EXAMINER DATED AUGUST 18, 2005, SHEET 1 of 1, UNDER "OTHER DOCUMENTS, ENTRY 3, LINE 3)

In Fig. 11, Sheet 11 of 25, for Tag "1108", Line 5, delete "REQUIRENTS" and insert - - REQUIREMENTS - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, IN THE DRAWINGS, SHEET 11, FIG. 11)

In Fig. 18B, Sheet 18 of 25, for Tag "1816", Line 1, delete "REACH" and insert - - REACHED - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, IN THE DRAWINGS, SHEET 18, FIG. 18B)

In Fig. 18B, Sheet 18 of 25, for Tag "1816", Line 3, after "WHETHER THE" delete "THE".
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, IN THE DRAWINGS, SHEET 18, FIG. 18B)

In Fig. 22, Sheet 22 of 25, below figure, Line 1, delete "SUBSRIBER" and insert - - SUBSCRIBER - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, IN THE DRAWINGS, SHEET 22, FIG. 22)

In Fig. 23, Sheet 23 of 25, below figure, Line 1, delete "POWR" and insert - - POWER - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, IN THE DRAWINGS, SHEET 23, FIG. 23)

In Column 1, Line 23, after "entitled" delete "is".
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 1, LINES 14-15)

$$\left[\frac{E_c}{I_o}\right]^c_{req\_R-PICH}$$

In Column 7, Lines 20-24, delete " $im(ibin, f_i))_n$ " and

insert -- $\left[\dfrac{E_c}{I_o}\right]^c_{req\_R-PICH} \quad (im(ibin, f_i))_n$ -- , therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 11, LINE 10)

In Column 7, Line 27, delete "$I_o=\hat{I}or+I_{oc}+N_o$" and insert - - $I_o=\hat{I}_{or}+I_{oc}+N_o$ - -, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 11, LINE 11)

$$\left[\frac{E_b}{N_t}\right]^c_{req\_R-fCH}$$

In Column 7, Lines 30-34, delete " $(im(ibin, f_i))_n$ " and

insert -- $\left[\dfrac{E_b}{N_t}\right]^c_{req\_R-PCH} \quad (im(ibin, f_i))_n$ -- , therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 11, LINE 12)

In Column 7, Line 36, after "$N_t = I_{oc}+N_o$" insert - - . - -.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 11, LINE 13)

In Column 8, Line 22, after "step 302" insert - - . - -.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 12, LINE 19)

In Column 8, Line 27, after "step 302" insert - - . - -.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 12, LINE 23)

In Column 8, Line 35, after "step 302" insert - - . - -.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 13, LINE 3)

In Column 8, Line 52, after "step 304" insert -- , --.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 13, LINE 15)

In Column 10, Line 34, Equation No. 8, delete "$L^C_{f,r}(k)G_r(k,im(ibin,f_i)_n)$," and insert -- $L^C_{f,r}(k)G_r(k,im(ibin,f_i)_n)$ --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 16, LINE 11, EQUATION 8)

In Column 10, Lines 57-58, delete "$EIRP^m_{without-SHG}(K,im(ibin,f_i)_n)$" and insert -- $EIRP^m_{without\_SHG}(K,im(ibin,f_i)_n)$ --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 17, LINE 5)

In Column 11, Lines 37-38, Equation No. 10, delete

"$\frac{R-FCH\_EIRP^m(k,\,im(ibin,\,f_i)_n}{L^m_f(im(ibin,\,f_i))_n \cdot G^m(k,\theta_{point}(im(ibin,\,f_i))_n}\cdot\gamma_{R-FCH_n}$" and

insert -- $\frac{R-FCH\_EIRP^m(k,im(ibin,f_i))_n}{L^m_f(im(ibin,f_i))_n \cdot G^m(k,\theta_{point}(im(ibin,f_i)))_n}\cdot\gamma_{R-FCH_n}$ --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 18, LINE 9)

In Column 11, Line 50, delete "P^m_{R-FCH}" and insert -- P^m_{R-FCH} --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 18, LINE 15)

In Column 12, Line 6, delete "P_{R-FCH}^m" and insert -- P^m_{R-FCH} --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 18, LINE 20)

In Column 14, Line 39, delete "$G^m(k,74_{point}(im,ibin,f_i))$" and insert -- $G^m(k,\theta_{point}(im,ibin,f_i))$ --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 22, LINE 2)

In Column 15, Line 10, Equation No. 12, delete

"$\frac{R\_SCH\_EIRP^m(k,\,im(ibin,\,f_i)_n}{L^m_f(im(ibin,\,f_i))_n \cdot G^m(k,\theta_{point}(im(ibin,\,f_i))_n}$" and

insert -- $\frac{R\_SCH\_EIRP^m(k,\,im(ibin,\,f_i)_n}{L^m_f(im(ibin,\,f_i))_n \cdot G^m(k,\theta_{point}(im(ibin,\,f_i))_n}$ --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 23, LINE 5)

In Column 15, Line 20, Equation No. 13, delete "

$$\frac{R - \text{SCH\_EIRP}_n^m(k,\ im(ibin,\ f_i))_n}{L_f^m(im(ibin,\ f_i))_n \cdot G^m(k,\ \delta_{point}(im(ibin,\ f_i))_n} \cdot \gamma_{R-SCH}$$," and

insert -- $$\frac{R - \text{SCH\_EIRP}_n^m(k,\ im(ibin,\ f_i))_n}{L_f^m(im(ibin,\ f_i))_n \cdot G^m(k,\ \theta_{point}(im(ibin,\ f_i))_n} \cdot \gamma_{R-SCH}$$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 23, LINES 8-9)

In Column 16, Lines 6-7, Equation No. 14, delete "

$$\frac{\left\lfloor P_{R-PICH}^m(BestFundServSec(im(ibin,\ f_i))_n,\ im(ibin,\ f_i))\right\rfloor_n}{\left\lfloor P_{t_{R-SCH}}^m(BestFundServSec(im(ibin,\ f_i))_n,\ im(ibin,\ f_i))\right\rfloor_n}$$," and

insert -- $$\frac{\left\lfloor P_{R-PICH}^m(BestFundServSec(im(ibin,\ f_i))_n,\ im(ibin,\ f_i))\right\rfloor_n}{\left\lfloor P_{t_{R-SCH}}^m(BestFundServSec(im(ibin,\ f_i))_n,\ im(ibin,\ f_i))\right\rfloor_n}$$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 24, LINES 18-20, EQUATION 14)

In Column 16, Line 14, delete " $N^{Supp^{rvs}}$ to $N_{max\_Supp}^{rvs}$ " and insert -- N_{Supp}^{rvs} to $N_{max\_Supp}^{rvs}$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 25, LINE 2)

In Column 20, Line 34, delete " $[App^m(im(ibin,fi))_{data}^{voice}]$," and

insert -- $\left[App^m(im(ibin,f_i))_{data}^{voice} \right]$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 33, LINE 1)

In Column 20, Line 45, delete " $[App^m(im(ibin,fi))_{data}^{voice}]$ " and

insert -- $\left[App^m(im(ibin,f_i))_{data}^{voice} \right]$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 33, LINE 8)

In Column 20, Line 48, Equation No. 15, delete " $[App^m(im(ibin,\ fi))_{data}^{voice}]$," and

insert -- $\left[App^m(im(ibin,f_i))_{data}^{voice} \right]$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 33, LINES 8-9)

In Column 20, Line 59, delete "[Fund_$P_{tch}{}^{c}$(k,im(ibin,f_i))]hd n^{voice}" and

insert -- $\left[Fund\_P_{tch}^{c}(k,im(ibin,f_i))\right]_n^{voice}$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 33, LINE 14)

In Column 20, Line 65, delete "[Fund_$P_{tch}{}^{c}$(k,im(ibin,f_i))]hd n^{data}" and

insert -- $\left[Fund\_P_{tch}^{c}(k,im(ibin,f_i))\right]_n^{data}$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 33, LINE 18)

In Column 21, Line 4, delete "[SCCH_$P_{tch}{}^{c}$(k,im(ibin,f_i))]hd n^{voice}" and

insert -- $\left[SCCH\_P_{tch}^{c}(k,im(ibin,f_i))\right]_n^{voice}$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 34, LINE 1)

In Column 21, Line 11, delete "[SCCH_$P_{wb}{}^{c}$(k,im(ibin,f_i))]hd n^{data}" and

insert -- $\left[SCCH\_P_{tch}^{c}(k,im(ibin,f_i))\right]_n^{data}$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 34, LINE 5)

In Column 21, Line 17, delete "[SCH_$P_{tch}{}^{c}$(k,im(ibin,f_i))]hd n^{voice}" and

insert -- $\left[SCH\_P_{tch}^{c}(k,im(ibin,f_i))\right]_n^{voice}$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 34, LINE 9)

In Column 21, Line 25, delete "[SCH_$P_{tch}{}^{c}$(k,im(ibin,f_i))]hd n^{data}" and

insert -- $\left[SCH\_P_{tch}^{c}(k,im(ibin,f_i))\right]_n^{data}$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 34, LINE 13)

In Column 22, Lines 58-59, delete "[Fund_$P_{tch}{}^{c}$(k,im(ibin,f_i))]hd n^{voice}" and

insert -- $\left[Fund\_P_{tch}^{c}(k,im(ibin,f_i))\right]_n^{voice}$ --, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 36, LINE 19)

In Column 22, Lines 61-62,

delete "$P_{tch\_lower}(k,f_i) = \gamma_f(k,f_i)*G_a{}^2*G_{PICH}{}^2(k,f_i)\times10^{(PTX_{lower}(k,f_i)/10)}$" and

insert -- $P_{tch\_lower}(k,f_i) = \gamma_f(k,f_i)*G_a^2*G_{PICH}^2(k,f_i)\times10^{\left(PTX_{lower}(k,f_i)/10\right)}$ --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 36, LINE 21)

In Column 23, Line 2, delete "$Ga_a{}^2$" and insert -- G_a^2 --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 37, LINE 1)

In Column 23, Line 17, delete "parameters" and insert -- parameter L --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 37, LINE 8)

In Column 23, Line 40, Equation No. 19,

delete "$P_{tch\_upper}(k,f_i) = \gamma_f(k,f_i)*G_a{}^2*G_{PICH}{}^2(k,f_i)\times10^{(PTX_{upper}(k,f_i)/10)}$" and

insert -- $P_{tch\_upper}(k,f_i) = \gamma_f(k,f_i)*G_a^2*G_{PICH}^2(k,f_i)\times10^{\left(PTX_{upper}(k,f_i)/10\right)}$ --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 38, LINE 1)

In Column 23, Line 43, delete "$G_{PICH}{}^{2(k,f_i)}$" and insert -- $G_{PICH}^2(k,f_i)$ --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 38, LINE 2)

In Column 23, Lines 56-57, delete "$PTX_{upper}{}^{F-FCH}(k,f_i)$" and

insert -- $PTX_{upper}^{F-FCH}(k,f_i)$ --, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 38, LINE 10)

In Column 24, Line 29, after "configuration" delete "A".
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 39, LINES 12-13)

In Column 29, Lines 34-35, Equation No. 28, delete "

$$\min\left\{MaxPA\_powerk, f_i), P^c_{PICH}(k, f_i) \times 10^{-\left(\frac{E_c}{Or}\right)_{PICH\_tmb}^{(k,f_i)}}\right\}$$ " and

insert - -
$$\min\left\{MaxPA\_power(k, f_i), P^c_{PICH}(k, f_i) \times 10^{-\left(\frac{E_c}{Ior}\right)_{PICH\_tmb}^{(k,f_i)}}\right\}$$ - -, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 47, LINE 7)

In Column 30, Lines 2-3, delete "FwdCallBlockTH(k,f_i)≦Fwd-HOBlock(k,f_i)" and
insert - - $FwdCallBlockTH(k, f_i) \geq FwdHOBlock(k,f_i)$ - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 48, LINE 2)

In Column 37, Lines 36-38, Equation No. 34, delete "$M^m_{ID\_E_b N_t}(i, j)$" and
insert - - $M^m_{ID\_E_b N_t}(i, j)$ - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 59, LINE 14, EQ. 34)

In Column 38, Line 24, Equation Set 36, delete "$\forall\ p, q \in \mathcal{I} \geq 1$" and
insert - - $\forall p, q \in \mathcal{I} \geq 1$, - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 60, LINE 6)

In Column 39, Lines 35-38, Equation No. 38,

delete "
$$\left\{ i \in M^m_{ID\_E_b N_t}(i, j); \min_{\substack{\forall i=1,\ldots,4 \\ and \\ i \in M^m_{ID\_E_b N_t}(i,j)=1}} \left\{ \sum_{j=1}^{N-1} M^m_{ID\_E_b N_t}(i, j) \right\} \right\}$$ " and

insert - -
$$\left\{ i \in M^m_{ID\_E_b N_t}(i, j); \min_{\substack{\forall i=1,\ldots,4 \\ and \\ i \in M^m_{ID\_E_b N_t}(i, j)=1}} \left\{ \sum_{j=1}^{N-1} M^m_{ID\_E_b N_t}(i, j) \right\} \right\}$$ - -, therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 29, 2001, PAGE 61, LINES 11-12, EQ. 38)

In Column 42, Line 6, in Claim 16, after "each" delete "the".
(AMENDMENTS TO THE CLAIMS DATED NOVEMBER 21, 2005, PAGE 6 OF 20, CLAIM 16, LINE 5)

In Column 43, Line 20, in Claim 25, after "each" delete "the".
(AMENDMENTS TO THE CLAIMS DATED NOVEMBER 21, 2005, PAGE 9
OF 20, CLAIM 25, LINE 5)

In Column 43, Line 50, in Claim 27, after "determining" insert - - the - -.
(AMENDMENTS TO THE CLAIMS DATED NOVEMBER 21, 2005, PAGE 10
OF 20, CLAIM 27, LINE 3)

In Column 43, Line 56, in Claim 28, delete "unit." and insert - - unit - -, therefor.
(AMENDMENTS TO THE CLAIMS DATED NOVEMBER 21, 2005, PAGE 11
OF 20, CLAIM 28, LINE 2)

In Column 44, Line 12, in Claim 30, after "each" delete "the".
(AMENDMENTS TO THE CLAIMS DATED NOVEMBER 21, 2005, PAGE 11
OF 20, CLAIM 30, LINE 6)

In Column 45, Line 11, in Claim 37, after "iteration" insert - - , - -.
(AMENDMENTS TO THE CLAIMS DATED NOVEMBER 21, 2005, PAGE 14
OF 20, CLAIM 37, LINE 2)

In Column 46, Line 4, in Claim 39, after "base station" insert - - ; - -.
(AMENDMENTS TO THE CLAIMS DATED NOVEMBER 21, 2005, PAGE 15
OF 20, CLAIM 39, LINE 8)

The requested corrections are attached on Form PTO 1050.

Respectfully Submitted

, 2008
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DATE

/SIDNEY L. WEATHERFORD,Reg#45602/
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Sidney L. Weatherford
Registration No. 45602
Attorney of Record